

ABSTRACT

An optical signal control process and circuit providing an improved electronic photography method reproduction apparatus. The reproduction apparatus has a data transmitting unit converting data to be printed to a series of video data in accordance with a first clock signal and transmitting the converted video data in response to a horizontal synchronization signal applied with a predetermined time interval, and a printing control unit for controlling a mechanism used to print the video data by sending electrical signals, providing beam data used to switch the light generation of a light source element controlled by chopped chopping video data applied to the light source element, and generating the horizontal synchronization signal on the basis of a beam detection signal produced by the light source element. A chopping unit is connected between the data transmitting unit and the printing control unit, for chopping the converted video data output from the data transmitting means in response to a second clock signal and for providing the chopped data as the chopping video data. Accordingly, the chopped video data is transmitted as beam data by the printing control unit and is then used to control the amount of light exposed on the photosensitive drum. The amount of the light is controlled optimally by the variable selection of the frequency of the second clock signal.